Name:

*Mr. Tiénou-Gustafson & Mr. Bielmeier*

Geometry, Period

Due Date: Wed, 18 Feb 2015

**Geometry**

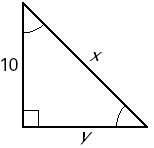
**Homework**



***Failure to show all work and write in complete sentences will result in LaSalle.***

* What does SOHCAHTOA stand for?
* Do trig ratios (sine, cosine, and tangent) apply to all triangles? Explain.

|  |  |
| --- | --- |
| 1. In the figure below, C is a right angle and a, b, and c represent the lengths of the sides of the right triangle. What is the tangent of A?   A  a  c  b  C  B | 1. Using the same figure as #1, if c = 20 and b = 8, first explain how you could find the measure of a, then calculate the measure of a. |
| 1. http://magoosh.com/gmat/files/2012/10/pt_img1.png In the figure below, ABC is a right triangle with a right angle at C. Write a ratio for the tangent of angle B. | 1. Using the same figure as #3, given *m∠B = 40°* and , first explain how you could find the length of , then calculate the length of ? |
| 1. Find tan X. | 1. Find tan A |

1. Write the proportions for the tangent of angles Θ (pronounced *theta*) and Φ (called *phi*).

Φ

Θ

|  |  |
| --- | --- |
| 1. Find the measure of x.   http://mathematicsi.com/wp-content/uploads/Trigonometry-Missing-Sides-17.png | 1. If *m∠A = 37°*, find the length of side AC.   http://staff.argyll.epsb.ca/jreed/math9/strand3/images/3105.h14.jpg |

**Spiraled Review ~ show all work or explain your answer**

|  |  |
| --- | --- |
|  |  |
| What is the sum of the coordinates of the midpoint of a segment with endpoints A(3, 7) and B(-5, -6)?   1. 0  4. 1 5. -1 | 1. In the standard coordinate plane, points and have coordinates and, respectively. What are the coordinates of the midpoint of and the sum of the coordinates??    1. ; -6    2. ; -3    3. ; 0 |
|  |  |